

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.
31-R-0014

CUSTOMER NO.
216

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

OHIO STATE UNIVERSITY THE
1960 KENNY RD. 313 RESEARCH FOUNDATION
COLUMBUS, OH 43210

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS/sites

(b)(2)High, (b)(7)f

(b)(2)High, (b)(7)f

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs			272		272
5. Cats			111		111
6. Guinea Pigs		218	68	25	311
7. Hamsters		30	2181		2211
8. Rabbits		2	682		684
9. Non-Human Primates			39		39
10. Sheep			25		25
11. Pigs		38	1241		1279
12. Other Farm Animals					
cows		1	84		85
13. Other Animals					
raccoons			4		4
cotton rats		109	401		510
deer mice			329	20	349

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

(b)(6), (b)(7)c

11/15/2007

raw

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OHIO STATE UNIVERSITY THE
1960 KENNY RD. 313 RESEARCH FOUNDATION
COLUMBUS, OH 43210

[illegible]

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). **A summary of all the exceptions is attached to this annual report.** In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

DATE SIGNED

11/15/2007

APHIS Form 7023 Column E Explanation

This form is intended as an aid to completing the APHIS Form 7023 Column E explanation. It is not an official form and its use is voluntary. Names, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1. Registration Number: 31-R-0014

2/3. Species (common name) & Number of animals used in this study:

voles (41)

4. Explain the procedure producing pain and/or distress.

animals receive lipopolysaccharides which induce sickness behaviors such as hypophagia, fever, reduced locomotor activity, reduced grooming which can last approximately 12 hours

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 6 below)

The goal of the study is to determine whether voles are capable of sensing that members of their community are sick and respond by minimizing contact with the sick individuals in order to limit spread of disease. Animals with flu-like symptoms are needed to test this hypothesis. Therefore, treating pathogenic animals would jeopardize the outcome of the study. Animals that do not recover within 24 hours are removed from the study.

6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Agency:

CFR:

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1. Registration Number: 31-R-0014

2/3. Species (common name) & Number of animals used in this study:

deer mice (20)

4. Explain the procedure producing pain and/or distress.

Deer mice undergo a punch biopsy under anesthesia to create two uniform full-thickness wounds in the dorso-rostral area of the back. Effects of social contact and restraint on rate of wound healing is assessed between the sexes of monogamous and polygynous species. Animals are restrained in a plexiglass tube for up to 3 hours per day for no more than 21 days.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 6 below)

The goal is to determine whether positive social interaction and social structure can counteract the negative effects of stress on rate of wound healing. In order to test this hypothesis, a method of increasing blood levels of stress hormones is needed. Restraint was chosen as the stressor to use. Thus, it becomes an integral component of the experimental paradigm that can not be eliminated.

6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Agency:

CFR:

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1. Registration Number: 31-R-0014

2/3. Species (common name) & Number of animals used in this study:

Guinea Pigs (25)

4. Explain the procedure producing pain and/or distress.

Restraint stress is accomplished by wrapping guinea pigs and leaving them in restrained position (2 hours) on metal board; other animals are subject to cold stress by placing in plastic tank filled with water in cold room (4 C) for 10 min. All animals are euthanized after the stress procedure.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 6 below)

Stress is known to impact digestive tract function. This study seeks to determine whether the effects of stress are mediated by an increased magnitude of corticotropin releasing factor (CRF) actions on the enteric nervous system. Stress is an integral component of the experimental paradigm and therefore could not be eliminated

6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Agency:

CFR: